

4.6 INS - Ingest Subsystem

4.6.1 Introduction

The Ingest subsystem is responsible for the receipt of data arriving at a site and the initial physical placement of the data into the site's storage facility. A provider site within EOSDIS will normally need to ingest a multitude of data types to support the services it wishes to offer. These data may be delivered through a wide variety of interfaces (network file transfer, machine-to-machine transfer, media, hard copy etc.), each with a potentially unique interface management approach. This interface heterogeneity and the need to support extensibility and new data/interfaces as algorithms and provider functionality changes, leads to a design in which the ingest functionality is isolated from other subsystems within the segment design.

Key interfaces to the Ingest subsystem are obviously the delivery of Level 0 (L0) data and exchange of products and ancillary data from Earth Probe Data Systems (EPDSs), International Partners (IPs), authorized users, ADCs and SCFs to facilitate processing. The various types of data can be divided into several groups. To provide an introduction for the description of the subsystem the overall characteristics of these groups are outlined below:

- **L0 Data**—The L0 data is received via EDOS from the EOS spacecraft, via SDPF from the TRMM32 platform, and via the Landsat Processing System (LPS) for Landsat-7 (L0R) data. Other L0 data are received from ACRIM, SeaWinds, RADAR ALT, and SAGE III. The L0 data will be stored for up to one year in the Ingest subsystem hardware resources. L0R data will be stored permanently within the Data Server hardware resources. The SDPF and Landsat-7 interfaces are designed to provide data for ECS pick-up within a specified time window after notification of data availability. ECS coordinates data transfer, and performs file transfers when ECS resources are available. The basic characteristics of the EDOS interface are that when all packets needed to produce each data set have been received at EDOS, delivery of the data set from the EDOS to ECS will be completed within the following 21 hours. EDOS will initiate a communications protocol through EBnet to ECS to start transfer of the files. If ECS responds that it is ready to receive files, the entire data set will be transferred to ECS. If ECS does not respond that it is ready to receive files, EDOS will periodically attempt to establish the communications session.
- **Ancillary Data**—Ancillary data includes data from sources other than the MTPE instruments used in the processing of science products (e.g., platform ancillary data, digital elevation models, meteorological forecast data, etc.). Many types of ancillary data are required to support the science processing, and are characterized in the ECS Discussion Paper, "Ancillary Data in the EOSDIS Core System," [ref: 193-00123].

The Ancillary data will be acquired from several sources and will in general require QA and in some cases pre-processing before archiving in the Data Server subsystem. Pre-processing is often required to provide an efficient form for the processing algorithm to use since the ancillary data not associated with the spacecraft (e.g., meteorological forecast data) is provided in spatial and time frames which do not match the organization of data acquired from the spaceborne instruments.

- **Product Data**—Products will be received from other provider sites (including DAACs) for archiving in the Data Server subsystem, for satisfying user requests, for higher level processing or for use as ancillary data for other product processing.

Where product data is required as an input to product processing it may require re-processing in the same way as Ancillary data.

- **Correlative Data**—Correlative data comprises data used for calibration, validation and verification of EOSDIS science products. Similar in character to ancillary data acquired from outside the EOS space segment, these data sets will generally be archived in the Data Server subsystem in their 'as-received' format with appropriate metadata to assist in location of suitable data for specific analyses. In general ECS will be responsible only for that correlative data that is available and held by government institutions which are not able to make their data available to EOSDIS users through the interoperability infrastructure which supports all types of EOSDIS services. This avoids the need to have all data transferred 'into' EOSDIS.
- **Metadata**—Several types of metadata will also be exchanged between sites (e.g., SCFs will provide quality information to the DAACs as part of the off-line QA activity). This is in addition to metadata provided as part of data already described in this list.
- **Documents**—Documents in a variety of formats will be ingested at EOSDIS sites.
- **Algorithms/User Methods**—Two types of algorithms have been identified that will require ingestion. These are:
 - **Algorithms (Science Processing Software)**—The ingestion of algorithms into the ECS is a more complex procedure than the routine ingest of some types of data. An algorithm delivery will comprise many related files containing the algorithm, test data, calibration coefficients etc.
 - **User Methods**—These are 'algorithms' provided by the user community to provide special processing on EOSDIS data which isn't supported by the standard ECS functionality. These methods may be peer reviewed within the user community and made available to the entire EOSDIS user community, or be only for the suppliers use. The methods will be delivered through the Ingest subsystem for integration into the local provider site system.
- **Administrative Data**—Many types of administrative data will be exchanged between EOSDIS provider sites, other external organizations and the MSS (e.g. data availability schedules). It is intended that a consistent structure be used for administrative data to simplify Ingest subsystem interfaces.
- **"unknown"**—It is envisaged that some data will be received at an ECS provider site that will be of unknown type or format. That data will be rejected and an error status returned. All data to be ingested by ECS must be defined by means of an appropriate interface control process.

This diversity means that while each external data interface will inherit some basic characteristics (e.g., logging of data arrival) and common service functions (e.g., advertising), there will need to be considerable specialization for each interface. While it would be desirable to try and limit the diversity, and therefore the specialization, this would significantly reduce the flexibility and

extendibility to support changes and new interfaces, which would significantly reduce the flexibility of EOSDIS to support future science investigations. However, the specialization is localized primarily in the area of data preprocessing, which is dependent on the data type of the ingested data.

The proposed design generally handles interface specializations by means of operator-tunable tables. The tables describe data components, required preprocessing metadata descriptions, and system parameters.

4.6.2 Ingest Subsystem Summary

4.6.2.1 Subsystem Interfaces

Refer to Section 3 of 305-CD-025-002 for a context diagram and more detail of the flows between subsystems. The Ingest Subsystem is responsible for the receipt of data arriving at a site and the initial physical placement of data into the site's storage facility. Its interfaces are summarized as follows:

- the subsystem receives data from EDOS, Landsat-7 Processing System (LPS), and many other external sources.
- the subsystem receives advertisements and subscription notification from the Interoperability Subsystem and it sends an advertisement subscription to the Interoperability subsystem.
- the subsystem receives requests for data from the Data Processing subsystem and sends subscription notifications and the Level 0 data to the Data Processing subsystem.
- the subsystem receives plans and subscriptions from the Planning subsystem and send subscription notifications and schedules to the Planning Subsystem.
- the subsystem sends metadata and non-L0 data to the Data Server for storage.
- the subsystem receives communications and other common services from the Communications Subsystem.
- the subsystem sends event and fault information to the System Management Subsystem (MSS) and receives life-cycle commands and other status requests from the MSS.

4.6.2.2 CSCI Overview

4.6.2.2.1 INGST - Ingest Services CSCI

A copy of the Ingest CSCI is provided at each site. A separate session component of the Ingest CSCI is provided for each interface serviced by the Ingest subsystem. Each session component of the Ingest CSCI has similar functionality. However, in each instance the CSCI has to deal with the characteristics of the specific interface it is managing.

Ingest processing is data-driven. For data-driven ingest, data centers either a) send data availability notices to the DAACs to indicate the availability of data or b) place data in a standard location where the data may be detected periodically by ECS. For hard media ingest, the "data availability notice" is entered by DAAC operations staff at a GUI interface.

Depending on the interface, data may be transferred by means of a "get" or a "put". ECS "gets" data from an external data provider under Ingest CSCI control. An external data provider "puts" data into an ECS location under the data provider's control.

The Ingest CSCI performs transmission checks relevant to the transfer mechanism (e.g., incomplete files, missing files, etc.) and notify the data source of success or failure. Failure may result in a request to resend or in sending a notification to the operations staff. The DAAC operations staff may monitor the status of active ingest processing.

The Ingest CSCI extracts some minimal metadata to allow the data to be referenced. The metadata is extracted from a file or message associated with the data. Some portion of the metadata may be checked for "correctness" (e.g., all required metadata parameters available, parameters within a range of values, etc.).

When the ingested data are complete (i.e., all referenced items are available), the Ingest CSCI requests insertion of the data into an appropriate Data Server.

The Ingest CSCI records the successful or unsuccessful transfer of data into the site in an ingest history log. The DAAC operations staff and SMC staff may interrogate the ingest history log.

This section includes the Level 4 requirements that describe the capabilities for the following:

- receiving a request from an external interface for automated data transfer, ingest, and archive. All data transfer hand-shaking is specified.
- polling accessible network locations for available Delivery Record files. External interfaces may transfer data to an accessible network location along with a Delivery Record file, which describes the data. ECS periodically polls for the Delivery Record files.
- polling accessible network locations for available data files. External interfaces may transfer data to an accessible network location. ECS periodically polls for the data files.
- interactive request for ingest of data from hard media by authorized operations staff.
- interactive request for ingest of data by network data transfer by authorized science users.
- interactive request for status on ongoing ingest request processing by authorized operations staff and science users
- processing of ingest requests, including initiation of data transfer, data checking, data preprocessing, and data archiving.
- control of ingest request processing (request cancellation, suspension, and resumption).
- preparation of data for insertion into an ECS Data Server.
- transfer of data into ECS. Detailed requirements for media data transfer are included in the Data Server subsystem section of this document. Detailed requirements for network data transfer are included in Section 4.10 of this document.
- processing of the Ingest History Log
- interactive viewing of the Ingest History Log by authorized operations staff
- scanning and digitizing of hard copy media into a form that may be archived in ECS.

4.6.2.2.2 ICLHW - Ingest Client HWCI

The Ingest Client HWCI (ICLHW) is the single HWCI in the Ingest subsystem and contains the I/O, processing, staging, and storage resources to support the ingest and storage of Level 0 data. This HWCI consists of 3 components: (1) client hosts, (2) working storage, and (3) L0 archive repository.

4.6.3 Requirements Table

The following table lists all INS L4 requirements for Releases Ir1, A & B in numerical order together with their RbR parent requirements.

Ingest Subsystem L4 to RbR traceability (1 of 148)

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00010	IR1	The INGEST CI shall accept Network Ingest Requests to request automated electronic network ingest of a collection of Data. The collection of Data shall describe one or more Data Granules.	SDPS0020#Ir1	The SDPS shall receive EOS science, and engineering data from the SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			TRMM2270#Ir1	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM1280#B	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#A	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#Ir1	ECS shall be able to accept CERES simulated data from SDPF.
			DADS0210#B	Each DADS shall be capable of receiving, at a minimum, the following types of EOS instrument data in support of pre-launch checkout of the ground system: a. Real EOS instrument data b. Simulated EOS instrument data
			DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			TRMM5030#B	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#A	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#Ir1	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5010#B	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM5010#A	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#Ir1	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM2270#B	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#A	ECS shall be able to accept LIS simulated data from SDPF.
			DADS0130#Ir1	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			EOSD1750#A	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data
			EOSD1750#B	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0170#A	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			TRMM1010#A	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data from sets from SDPF.
			TRMM1010#Ir1	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			TRMM1010#B	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			TRMM1060#A	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1200#Ir1	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2010#B	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2190#A	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#Ir1	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#B	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			SDPS0110#Ir1	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0110#B	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs
			SDPS0110#A	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM4040#Ir1	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4040#B	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4040#A	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4030#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#B	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#A	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM4010#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4010#B	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4010#A	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM3050#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#B	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#A	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3040#Ir1	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3040#B	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3040#A	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3030#Ir1	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#B	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#A	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3010#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM3010#B	The ECS systes at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM3010#A	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM2200#Ir1	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#B	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#A	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2010#Ir1	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2010#A	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM1060#B	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1060#Ir1	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1200#A	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1200#B	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
S-INS-00020	IR1	The INGST CI shall check the Network Ingest Request to verify that the date/time prior to which the data will remain available is a valid date/time.	TRMM1010#A	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data from sets from SDPF.
			TRMM2200#A	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2190#Ir1	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#B	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM2190#A	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2010#Ir1	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2010#B	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2010#A	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM1200#Ir1	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM4040#Ir1	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4040#B	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4040#A	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4030#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#B	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#A	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			TRMM4010#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4010#B	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM3050#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#B	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#A	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3040#Ir1	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3040#B	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3040#A	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			SDPS0110#Ir1	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from SDPF.
			SDPS0110#B	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs
			SDPS0110#A	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			TRMM3030#Ir1	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#B	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#A	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3010#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM3010#B	The ECS systes at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM3010#A	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM2200#Ir1	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#B	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM4010#A	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM1200#B	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1010#B	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			TRMM1060#A	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM1060#Ir1	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1200#A	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1060#B	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1010#Ir1	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			DADS0170#A	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD1750#B	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, Pls, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1750#A	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data
			DADS0130#Ir1	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			SDPS0020#Ir1	The SDPS shall receive EOS science, and engineering data from the SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			TRMM5030#B	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#A	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#Ir1	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5010#B	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#A	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0210#B	Each DADS shall be capable of receiving, at a minimum, the following types of EOS instrument data in support of pre-launch checkout of the ground system: a. Real EOS instrument data b. Simulated EOS instrument data
			DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			TRMM5010#Ir1	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM2270#Ir1	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#B	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#A	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM1280#B	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#A	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#Ir1	ECS shall be able to accept CERES simulated data from SDPF.
S-INS-00030	IR1	The INGST CI shall authenticate the provider of a Network Ingest Request as an authorized provider of data to be ingested.	DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00040	IR1	The INGST CI shall report status to the provider of a Network Ingest Request and to the Error Log indicating successful or unsuccessful authentication of the provider as authorized to submit the request.	DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			ESN-0010#Ir1	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services
S-INS-00050	A	The INGST CI shall report the following to the MSS event log services: a. Receipt of a network ingest request; b. Response to a network ingest request.	DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
S-INS-00060	IR1	The INGST CI shall report status to the provider of a Network Ingest Request for the following: a. File transfer failure b. File size discrepancies c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Missing required request information j. Successful archive of the data	TRMM1010#A	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data from sets from SDPF.
			TRMM1060#Ir1	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1080#B	The ECS systems at the LaRC DAAC shall acknowledge successful receipt of a CERES data set from the SDPF.
			TRMM1200#A	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1200#Ir1	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1200#B	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM4040#Ir1	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4040#B	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4040#A	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4030#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#B	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM2200#Ir1	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#B	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#A	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2190#Ir1	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#B	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#A	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2010#Ir1	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2010#B	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM3040#B	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3040#A	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM3030#Ir1	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#B	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#A	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3010#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM3010#B	The ECS systes at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			TRMM3010#A	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			SDPS0110#Ir1	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from SDPF.
			SDPS0110#B	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs
			SDPS0110#A	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			TRMM4030#A	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4010#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4010#B	The ECS systems at the GSFC DAAC shall ingest TRMM standard prducts (Level 1A - 3B) for VIRS from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM4010#A	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM3050#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#B	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#A	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3040#Ir1	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM2010#A	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM1080#Ir1	The ECS systems at the LaRC DAAC shall acknowledge successful receipt of a CERES data set from the SDPF.
			TRMM1080#A	The ECS systems at the LaRC DAAC shall acknowledge successful receipt of a CERES data set from the SDPF.
			TRMM1060#B	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1010#B	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM1060#A	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1010#lr1	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1510#A	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS1400#A	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			SDPS0080#lr1	The SDPS shall quality check all science data received from the EPDSs and ancillary data received from the ADCs.
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			SDPS0020#lr1	The SDPS shall receive EOS science, and engineering data from the SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			EOSD1750#A	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, Pls, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1750#B	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, Pls, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data
			DADS0170#A	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			DADS0130#Ir1	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			DADS1400#Ir1	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS1380#Ir1	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#Ir1	The DADS shall send data check and storage status to the provider of ingest data.
			TRMM1280#Ir1	ECS shall be able to accept CERES simulated data from SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM2270#B	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#A	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#Ir1	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM5030#B	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#A	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#Ir1	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5010#B	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#A	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#Ir1	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM1280#B	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#A	ECS shall be able to accept CERES simulated data from SDPF.
			DADS2040#B	Each DADS shall insure that data sent by EDOS and SDPF has been received and validated.
			DADS1510#B	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS1400#B	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS0210#B	Each DADS shall be capable of receiving, at a minimum, the following types of EOS instrument data in support of pre-launch checkout of the ground system: a. Real EOS instrument data b. Simulated EOS instrument data
			DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-00062	IR1	<p>The INGST CI shall report the following events by means of the CSS Event Logger Service, during the processing of a Network Ingest Request:</p> <ul style="list-style-type: none"> a. Receipt of an unexpected message from the ingest provider b. Detection of invalid information on a message received from the ingest provider c. Communication failure with the provider of the Ingest Request, as reported to the INGST CI by CSS communication services d. File transfer failures reported to the INGST CI by CSS File Access Service e. Detection of discrepancies between the number of the file(s) received and the specifications in the Ingest Request. 	DADS0130#Ir1	<p>Each DADS shall receive from the SDPF, at a minimum, the following:</p> <ul style="list-style-type: none"> a. Production data (L0)

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
S-INS-00064	IR1	The INGST CI shall report the following events by means of the CSS Event Logger Service, during tests of the network ingest interface between ECS and external data providers: a. Receipt of a message by the Ingest interface b. Start of processing for a valid Ingest Request c. Completion of all processing associated with the Ingest Request	DADS0130#Ir1	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
S-INS-00070	A	The INGST CI shall provide the capability to periodically check a location accessible to the ESN for the presence of a Delivery Record file describing data to be ingested. The Delivery Record file shall contain the same information as a Network Ingest Request.	DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			NOAA0020#A	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0020#B	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0710#B	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0710#A	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0510#B	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0510#A	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
S-INS-00080	A	The INGST CI shall read a Delivery Record file describing data to be ingested at a location accessible to the ESN and submit a corresponding Network Ingest Request to be processed.	NOAA0020#A	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			NOAA0710#B	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0710#A	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0510#B	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0020#B	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0510#A	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-00083	B	The INGST CI shall determine the data type for expedited data provided by EDOS.	EOSD1030#B	ECS shall have the capacity to accept a daily average of (2) per cent of the daily data throughput as expedited data for use in mission functions of calibration and anomalies.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00085	A	The INGST CI shall report status to the provider of a polling ingest request (delivery record file) for the following: a. File transfer failure; b. File size discrepancies; c. Invalid data type identifier; d. Missing required metadata; e. Metadata parameters out of range; f. Failure to archive data; g. Missing required request information; h. Successful archive of the data.	DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			EDOS-B.1.6#B	The DIF shall provide the capability to receive status data from the LaRC DAAC as specified in Applicable Document 1, including but not limited to the following: b. Verification of PDSs delivered c. Verification of ADSs delivered
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
S-INS-00090	A	The INGST CI shall provide the capability for authorized operations staff to set the period between checking for the presence of Delivery Record files.	DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-00100	IR1	The INGST CI shall provide the capability to periodically check a location accessible to the ESN for the presence of data granule files.	DADS0260#A	Each DADS shall receive non-EOS correlative and ancillary digital data.
			EOSD1710#B	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1710#A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			DADS0260#B	Each DADS shall receive non-EOS correlative and ancillary digital data.
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
			DADS0260#Ir1	Each DADS shall receive non-EOS correlative and ancillary digital data.
			EOSD1710#Ir1	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: d. Science Data
S-INS-00110	IR1	The INGST CI shall submit an Polling Ingest Request after detecting the presence of data granule files in a location accessible to the ESN. The request shall contain the file location.	EOSD1710#Ir1	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: d. Science Data
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
			DADS0260#Ir1	Each DADS shall receive non-EOS correlative and ancillary digital data.
			DADS0260#B	Each DADS shall receive non-EOS correlative and ancillary digital data.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1710#A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			EOSD1710#B	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			DADS0260#A	Each DADS shall receive non-EOS correlative and ancillary digital data.
S-INS-00120	A	The INGST CI shall provide the capability for authorized operations staff to set the period between checking for the presence of external data granule files.	DADS0145#A	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-00130	A	The INGST CI shall interactively accept Hard Media Ingest Requests from operations staff for data to be ingested from hard media.	DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			EDOS-C.4.4#B	The DPF shall provide the capability to transfer ADSs to the GSFC DAAC.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-00140	A	The INGST CI shall check the Hard Media Ingest Request to verify that the Media Type is a type supported by the facility to which the request was submitted.	DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00150	A	The INGST CI shall verify that the External Data Provider specified in a Hard Media Ingest Request is an authorized provider of hard media to be ingested.	DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-00160	A	The INGST CI shall authenticate that the Hard Media Ingest Request is input by operations staff authorized to ingest hard media data.	DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
S-INS-00165	A	The INGST CI shall read a Delivery Record file describing data to be ingested to determine the files to be ingested after hard media data transfer.	DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-00170	A	The INGST CI shall report Hard Media Ingest Request status to the submitting operations staff for the following: a. Media file transfer failure b. Invalid Data Type Identifier c. Missing required metadata d. Metadata parameters out of range e. Data conversion failure f. Failure to archive data g. Missing file describing media data to be ingested h. Unauthorized hard media provider i. Unauthorized operations staff j. Successful archive of data	EDOS-B.3.3#B	The LaRC DAAC shall provide the capability to initiate transfer of the Verification of ADSs delivered status message to the DIF within 8 hours following the delivery of all ADSs for a 24 hour period.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS0300#A	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			DADS1510#A	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS1510#B	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0300#B	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00175	A	The INGST CI shall report Hard Media Ingest Request status to the MSS event log for the following: a. Unauthorized hard media provider b. Unauthorized operations staff	EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
S-INS-00180	A	The INGST CI shall interactively accept Network Ingest Requests from authorized science users for electronic network ingest of a collection of Data from a location accessible via the ESN. The collection of Data shall describe one or more Data Granules.	DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00187	B	The INGST CI shall access the Advertising service to determine the availability of a Network Ingest Request service for a given Data Type Identifier.	EOSD5010#B	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.
S-INS-00190	A	The INGST CI shall check the Network Ingest Request to verify that the date/time prior to which the data will remain available is a valid date/time in a Network Ingest Request entered interactively by a science user.	PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS2100#B	Each DADS shall receive time windows and priorities requested by the user for incorporation into and modification of its schedule.
S-INS-00200	A	The INGST CI shall allow a science user to specify the list of granule files in an interactive Network Ingest Request based on a displayed list of existing files stored on magnetic disk.	DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00205	A	The INGST CI shall determine the External Data Provider for a Network Ingest Request entered interactively by a science user.	PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
S-INS-00207	A	The INGST CI shall automatically determine the data volume for each file in the list of granule files for an interactively entered Network Ingest Request.	DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
S-INS-00208	A	The INGST CI shall authenticate that the interactive science user entering a Network Ingest Request is authorized to request ingest of data.	DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
S-INS-00209	A	The INGST CI shall report to the Error Log an unauthorized attempt to interactively request ingest of data.	DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
S-INS-00210	A	The INGST CI shall allow authorized science users to save the contents of an interactively entered Network Ingest Request in a Delivery Record file with a specified file name.	DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
S-INS-00220	A	The INGST CI shall report status to the interactive submitter of a Network Ingest Request for the following: a. File transfer failure b. File size discrepancy c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Unauthorized science user j. Missing required request information k. Successful archive of the data	DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1400#B	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS1510#B	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS0300#B	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS0300#A	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS1510#A	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS1400#A	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
S-INS-00221	A	The INGST CI shall interactively accept Document Ingest Requests from authorized science users for ingest of a single collection of document Data from a location accessible via the ESN. The collection of document Data shall describe one or more document Data Granules.	DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
S-INS-00222	A	The INGST CI shall check the Document Ingest Request to verify that the date/time prior to which the data will remain available is a valid date/time in a Document Ingest Request entered interactively by a science user.	DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS2100#B	Each DADS shall receive time windows and priorities requested by the user for incorporation into and modification of its schedule.
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00224	A	The INGEST CI shall allow a science user to specify the list of document granule files in an interactive Document Ingest Request based on a displayed list of existing files stored on magnetic disk.	DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
S-INS-00225	A	The INGEST CI shall determine the data provider and assign the Priority Information for a Document Ingest Request entered interactively by a science user.	DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
S-INS-00226	A	The INGEST CI shall automatically determine the data volume for each file in the list of document granule files for an interactively entered Document Ingest Request.	DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
S-INS-00227	A	The INGST CI shall authenticate that the interactive science user entering a Document Ingest Request is authorized to request ingest of data.	DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
S-INS-00228	A	The INGST CI shall report to the Error Log an unauthorized attempt to interactively request ingest of document data.	DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00229	A	The INGST CI shall allow authorized science users to save the contents of an interactively entered Document Ingest Request in a file with a specified file name.	DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
S-INS-00230	A	The INGST CI shall report status to the interactive submitter of a Document Ingest Request for the following: a. File transfer failure b. File size discrepancy c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Unauthorized science user j. Missing required request information k. Successful archive of the data	DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0300#B	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1510#B	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS0300#A	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS1510#A	Each DADS shall ensure that IMS acknowledges receipt of metadata on all products stored in the DADS.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00234	B	The INGST CI shall access the Advertising service to determine the availability of a Document Ingest Request service for a given Data Type Identifier.	EOSD5010#B	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.
S-INS-00235	A	The INGST CI shall accept ingest Status Requests from science users to determine the status of: a. A specified ongoing Ingest Request, previously submitted by the science user who is requesting status and identified by the ingest Request Identifier b. All of the user's ongoing Ingest Requests	DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
S-INS-00240	A	The INGST CI shall determine the User Identifier for a science user submitting an ingest Status Request.	DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
S-INS-00250	A	The INGST CI shall return status on a science user's ongoing Network Ingest Requests, based on User Identifier, to the user.	DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
S-INS-00260	A	The INGST CI shall provide science users the capability to display the status of the user's ongoing request processing. Displayed status shall include the External Data Provider, ingest Request Identifier, total ingest data volume, and Request State.	DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
S-INS-00270	A	The INGST CI shall accept ingest Status Requests from authorized operations staff to determine the status of: a. A specified ongoing Ingest Request identified by ingest Request Identifier b. All ongoing Ingest Requests associated with a specified User Identifier c. All ongoing Ingest Requests	DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
S-INS-00280	A	The INGST CI shall determine the User Identifier for an operations staff member submitting an ingest Status Request.	DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
S-INS-00290	A	The INGST CI shall authenticate the User Identifier of operations staff requesting status on all ongoing Ingest Requests.	DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
S-INS-00295	A	The INGST CI shall return an error status to the requester and log information in the Error Log if status is requested on ongoing Ingest Requests from an unauthorized requester.	DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
			DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
S-INS-00300	A	The INGST CI shall return status on ongoing Ingest Requests to an authorized operations staff member.	DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
S-INS-00310	A	The INGST CI shall provide authorized operations staff the capability to view the status of ongoing ingest processing. Displayed status shall include the External Data Provider, ingest Request Identifier, total ingest data volume, and Request State.	DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
S-INS-00315	A	The INGST CI shall provide the capability for authorized operations staff to select status of ongoing Ingest Request processing for viewing by means of the External Data Provider.	DADS1070#A	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1070#B	The DADS shall send data check and storage status to the provider of ingest data.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
S-INS-00316	A	The INGST CI shall accept an Ingest Request from authorized applications.	DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS3140#A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
S-INS-00317	A	The INGST CI shall authenticate the User Identifier of an application submitting an Ingest Request.	DADS0310#A	Each DADS shall verify that data received came from an approved/authorized source.
			DADS3140#A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0310#B	Each DADS shall verify that data received came from an approved/authorized source.
S-INS-00318	A	The INGST CI shall determine the Priority Information for each Ingest Request based on the External Data Provider and the requested ingest priority for the request.	DADS2100#B	Each DADS shall receive time windows and priorities requested by the user for incorporation into and modification of its schedule.
S-INS-00319	A	The INGST CI shall add a submitted Ingest Request to a list of Ingest Requests sorted by Priority Information.	DADS2030#B	Each DADS shall maintain a list/schedule of data to be received from EDOS.
			DADS2100#B	Each DADS shall receive time windows and priorities requested by the user for incorporation into and modification of its schedule.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00320	A	The INGST CI shall select an Ingest Request for processing based on the priorities of current requests so long as the number of requests concurrently processed is less than a threshold specified by operations staff. Requests of equal priority will be processed first-in, first-out.	DADS2030#B	Each DADS shall maintain a list/schedule of data to be received from EDOS.
			DADS2100#B	Each DADS shall receive time windows and priorities requested by the user for incorporation into and modification of its schedule.
S-INS-00321	B	The INGST CI shall advertise available Interactive Network Ingest services.	EOSD5010#B	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.
S-INS-00325	A	The INGST CI shall determine the ingest start/stop dates and times for all ingested data.	DADS0350#B	Each DADS shall generate the following metadata items, at a minimum: a. Unique Granule Id for L0 b. Date and time of storage c. Physical location d. Data check status e. Unique format identifiers
			DADS0350#A	Each DADS shall generate the following metadata items, at a minimum: a. Unique Granule Id for L0 b. Date and time of storage c. Physical location d. Data check status e. Unique format identifiers
S-INS-00330	A	The INGST CI shall determine the Data Type Identifier for a set of ingested files, whenever the identifier was not provided in the Ingest Request.	DADS0350#A	Each DADS shall generate the following metadata items, at a minimum: a. Unique Granule Id for L0 b. Date and time of storage c. Physical location d. Data check status e. Unique format identifiers
			DADS0350#B	Each DADS shall generate the following metadata items, at a minimum: a. Unique Granule Id for L0 b. Date and time of storage c. Physical location d. Data check status e. Unique format identifiers

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00340	A	<p>The INGST CI shall report status on processing of an Ingest Request to the Error Log for the following:</p> <ul style="list-style-type: none"> a. File transfer failure b. File size discrepancy c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Metadata extraction failure g. Data conversion failure h. Data reformatting failure i. Failure to archive data j. Inability to transfer data within the specified time window k. Missing required request information l. Unauthorized Ingest Request submitter m. Successful archive of the data 	DADS0300#B	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS1400#B	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS1330#B	Each DADS shall provide information to support fault isolation between the DADS and other ECS-unique elements and external interfaces to the LSM.
			DADS1320#B	Each DADS shall provide to the SMC fault isolation information at the DADS system and subsystem levels.
			DADS1300#B	Each DADS shall display all faults to the system operators.
			DADS0901#B	<p>The DADS element shall collect the management data used to support the following system management functions:</p> <ul style="list-style-type: none"> a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0300#A	Each DADS shall generate status indicating the success or failure of metadata and data consistency checks.
			DADS1300#A	Each DADS shall display all faults to the system operators.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS1320#A	Each DADS shall provide to the SMC fault isolation information at the DADS system and subsystem levels.
			DADS1400#A	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS1330#A	Each DADS shall provide information to support fault isolation between the DADS and other ECS-unique elements and external interfaces to the LSM.
S-INS-00345	A	The INGST CI shall report status on the performance of ingest requests to the MSS with the following information: a. file transfer duration b. file processing duration c. data insert duration	DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS1380#B	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#B	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
			DADS1380#A	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.
			DADS1390#A	Each DADS shall monitor data transfer between elements of the ECS and the DADS.
S-INS-00350	A	The INGST CI shall accept an ingest Cancellation Request from authorized operations staff to cancel an ongoing ingest request, specifying the ingest Request Identifier.	DADS0700#A	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#A	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
S-INS-00355	B	The INGST CI shall accept an ingest Suspension Request from authorized operations staff to suspend ongoing ingest request processing for a specified ingest Request Identifier, to suspend all ongoing ingest request processing from a specified External Data Provider, or to suspend all ongoing ingest request processing.	EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
S-INS-00357	B	The INGST CI shall accept an ingest Resumption Request from authorized operations staff to resume ongoing ingest request processing for a specified ingest Request Identifier, to resume all ongoing ingest request processing from a specified External Data Provider, or to resume all ongoing ingest request processing.	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00360	A	The INGST CI shall authenticate the User Identifier of operations staff submitting an ingest Cancellation Request.	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0700#A	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2220#A	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
S-INS-00363	B	The INGST CI shall authenticate the User Identifier of operations staff submitting an ingest Suspension Request or ingest Resumption Request.	EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00364	A	The INGST CI shall accept an ingest Cancellation Request from authorized applications to cancel an ongoing Ingest Request, specifying the Request Identifier.	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2000#B	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS1980#B	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			DADS0700#A	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS1980#A	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
			DADS2000#A	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS3140#A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00365	B	The INGST CI shall accept an ingest Suspension Request from authorized applications to suspend ongoing ingest request processing for a specified Request Identifier, to suspend all ongoing ingest request processing from a specified External Data Provider, or to suspend all ongoing ingest request processing.	DADS0100#B	Each DADS shall receive management directives from the SMC.
			DADS2000#B	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS1980#B	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
S-INS-00367	B	The INGST CI shall accept an ingest Resumption Request from authorized applications to resume ongoing ingest request processing for a specified Request Identifier, to resume all ongoing ingest request processing from a specified External Data Provider, or to resume all ongoing ingest request processing.	EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0100#B	Each DADS shall receive management directives from the SMC.
			DADS2000#B	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1980#B	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
S-INS-00369	A	The INGST CI shall authenticate the User Identifier of an application submitting an ingest Cancellation Request.	DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS0100#A	Each DADS shall receive management directives from the SMC.
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
			DADS2000#B	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS1980#B	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
			DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS0100#B	Each DADS shall receive management directives from the SMC.
			DADS0700#A	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2000#A	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS1980#A	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
			DADS3140#A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00370	B	The INGST CI shall authenticate the User Identifier of an application submitting an ingest Suspension Request or ingest Resumption Request.	DADS0100#B	Each DADS shall receive management directives from the SMC.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			DADS2000#B	Each DADS shall receive from the SMC scheduling directives in response to emergency situations.
			DADS1980#B	Each DADS shall receive from the SMC scheduling directives for system level, site/element-to-site/element, testing, and simulation activities.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
S-INS-00380	A	The INGST CI shall provide authorized operations staff the capability to set thresholds for: a. Total number of Ingest Requests to process concurrently b. Number of Ingest Requests for each External Data Provider to process concurrently c. Total volume of data to ingest concurrently d. Volume of data for each External Data Provider to ingest concurrently e. Number of data transfer retry attempts for each external interface to ECS	DADS0680#B	Each DADS shall have the capability to support all required requests and shall grow as demand expands.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS1400#B	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0680#A	Each DADS shall have the capability to support all required requests and shall grow as demand expands.
			DADS2220#A	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS1400#A	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
S-INS-00390	A	The INGST CI shall authenticate the User Identifier of operations staff requesting to set thresholds for concurrent ingest processing.	DADS0680#A	Each DADS shall have the capability to support all required requests and shall grow as demand expands.
			DADS1400#A	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS2220#A	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS1400#B	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS0680#B	Each DADS shall have the capability to support all required requests and shall grow as demand expands.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD2400#A	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
S-INS-00392	A	The INGST CI shall report status on ingest Cancellation Requests to the requesting operations staff and to the Error Log for the following: a. Unauthorized requester b. Invalid ingest Request Identifier c. Unable to cancel specified Ingest Request	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS0700#A	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2220#A	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
S-INS-00393	B	The INGST CI shall report status on ingest Suspension Requests to the requesting operations staff and to the Error Log for the following: a._Unauthorized requester b._Invalid ingest Request Identifier c._Unable to suspend specified Ingest Request(s)	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
S-INS-00394	B	The INGST CI shall report status on ingest Resumption Requests to the requesting operations staff and to the Error Log for the following: a. Unauthorized requester b. Invalid ingest Request Identifier	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
S-INS-00395	A	The INGST CI shall report status on ingest threshold setup Requests to the requesting operations staff and to the Error Log for the following: a. Unauthorized requester b. Invalid ingest Request Identifier c. Unable to suspend specified Ingest Request(s)	DADS0680#B	Each DADS shall have the capability to support all required requests and shall grow as demand expands.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS0680#A	Each DADS shall have the capability to support all required requests and shall grow as demand expands.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS2220#A	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
S-INS-00396	A	The INGST CI shall report status on ingest Cancellation Requests to the requesting application and to the Error Log for the following: a. Unauthorized requester b. Invalid ingest Request Identifier c. Unable to suspend specified Ingest Request(s)	DADS0700#A	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS3140#A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			DADS2210#A	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS0901#A	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS2210#B	Each DADS shall provide tools for the creation and manipulation of its plans/schedules.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
S-INS-00397	B	The INGST CI shall report status on ingest Suspension Requests to the requesting application and to the Error Log for the following: a._Unauthorized requester b._Invalid ingest Request Identifier c._Unable to suspend specified Ingest Request(s)	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
S-INS-00398	B	The INGST CI shall report status on ingest Resumption Requests to the requesting application and to the Error Log for the following: a._Unauthorized requester b._Invalid ingest Request Identifier	DADS0700#B	Each DADS shall be capable of complying with data transfer cancellation or delay notifications.
			DADS0901#B	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management
			DADS3140#B	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.
			DADS2220#B	Each DADS shall provide tools for manually overriding any of its schedules with other elements.
S-INS-00400	A	The INGST CI shall convert ingested data into a form accepted by the SDSRV CI / DDSRV CI, for following data types: a. NMC GRIB data.	DADS0320#B	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0770#B	The DADS shall reformat data sets in one of the approved standard formats including HDF.
			DADS0800#B	Each DADS shall provide the capability to translate input data to the internal ECS format including HDF.
			DADS0780#B	Each DADS shall have the capability to incorporate additional ingest and data distribution formats and conversion software.
			DADS0320#A	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
			DADS0800#A	Each DADS shall provide the capability to translate input data to the internal ECS format including HDF.
			DADS0780#A	Each DADS shall have the capability to incorporate additional ingest and data distribution formats and conversion software.
			DADS0770#A	The DADS shall reformat data sets in one of the approved standard formats including HDF.
S-INS-00401	B	The INGST CI shall convert ingested data into a form accepted by the SDSRV CI/DDSRV CI.	DADS0320#B	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
			DADS0770#B	The DADS shall reformat data sets in one of the approved standard formats including HDF.
			DADS0780#B	Each DADS shall have the capability to incorporate additional ingest and data distribution formats and conversion software.
			DADS0800#B	Each DADS shall provide the capability to translate input data to the internal ECS format including HDF.
S-INS-00402	B	The INGST CI shall reformat ingested data into a form accepted by the SDSRV CI/DDSRV CI, as needed.	DADS0320#B	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
			DADS0770#B	The DADS shall reformat data sets in one of the approved standard formats including HDF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00403	A	The INGEST CI shall perform the following metadata conversions: a. PB5 time into ECS standard date / time format; b. Binary integer values into ASCII integer format; c. Binary floating point values into ASCII floating point format.	DADS0320#B	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
			DADS0320#A	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
S-INS-00404	A	The INGEST CI shall extract metadata from ingested data into a form accepted by the Science Data Server / Document Data Server, as needed, for the following categories of data: a. Metadata parameters stored by parameter byte order and parameter byte length; b. Metadata parameters stored in PVL format; c. Metadata parameters stored in HDF format; d. Dataset-specific metadata formats	DADS0320#B	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
			DADS0320#A	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).
S-INS-00405	A	The INGEST CI shall append the following ingest-specific metadata to metadata corresponding to ingested data: a. Ingest start date and time b. Ingest stop date and time c. Metadata parameter check status d. Total data volume	DADS0350#B	Each DADS shall generate the following metadata items, at a minimum: a. Unique Granule Id for L0 b. Date and time of storage c. Physical location d. Data check status e. Unique format identifiers
			DADS0360#B	Each DADS shall augment PGS-generated metadata with DADS-generated metadata.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00406	A	<p>The INGST CI shall check selected parameters from extracted metadata to verify:</p> <ul style="list-style-type: none"> a. Metadata parameters stored in a dataset specific format b. For numeric metadata parameters limited by a range of values, that parameter values lie within the specified range c. For metadata parameters with values limited to a set of discrete values, that parameter values are listed in the specified set d. That the metadata parameter syntax is correct e. For metadata containing parameters describing the data size, that the data size is correct (within a specified tolerance) f. That date / time values include a valid month, day of month, hour, minute, and second g. That date / time values include a year value within a range specific for that date / time value 	DADS0290#B	<p>Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, error-free input, correctness of the data set granule size, and other checks as required.</p>
			DADS2040#B	<p>Each DADS shall insure that data sent by EDOS and SDPF has been received and validated.</p>
			DADS0290#A	<p>Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, and correctness of the data set granule size.</p>
			DADS2040#A	<p>Each DADS shall insure that data sent by EDOS and SDPF has been received and validated.</p>
S-INS-00408	A	<p>For each data granule specified in an Ingest Request the INGST CI shall determine by means of an Advertisement the appropriate SDSRV CI/DDSRV CI in which to store the data granule.</p>	DADS0180#A	<p>Each DADS shall receive from the users, at a minimum, the following:</p> <ul style="list-style-type: none"> a. Metadata b. Correlative data c. Documents d. New derived data sets

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS1030#A	Each DADS shall generate data distribution status to monitor the progress of the distribution process.
			DADS0490#A	Each DADS shall archive Level 1B - Level 4 data products.
			DADS0487#A	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
			DADS0465#A	The DADS shall provide storage for the following Version 0 data: a. Standard products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0460#A	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.
			DADS0450#A	Each DADS shall provide storage, at a minimum, for the following scientist provided data: a. Special data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Research results (articles, algorithms, data sets, software) f. Instrument characterization data sets g. Associated Metadata

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0440#A	Each DADS shall provide storage, at a minimum, for the following EOS data: a. Standard Products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms h. Format descriptions (e.g., HDF spec.)
			DADS0190#A	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			DADS0475#A	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0475#B	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0190#B	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
			DADS0440#B	Each DADS shall provide storage, at a minimum, for the following EOS data: a. Standard Products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms h. Format descriptions (e.g., HDF spec.)
			DADS0460#B	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.
			DADS0488#B	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.
			DADS1030#B	Each DADS shall generate data distribution status to monitor the progress of the distribution process.
			DADS0490#B	Each DADS shall archive Level 1B - Level 4 data products.
			DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0465#B	The DADS shall provide storage for the following Version 0 data: a. Standard products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0450#B	Each DADS shall provide storage, at a minimum, for the following scientist provided data: a. Special data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Research results (articles, algorithms, data sets, software) f. Instrument characterization data sets g. Associated Metadata
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
S-INS-00409	A	The INGST CI shall provide the capability to request storage of a data granule by means of a Data Insert Request to the SDSRV CI/DDSRV CI associated with the type of the data granule.	DADS0490#B	Each DADS shall archive Level 1B - Level 4 data products.
			DADS0488#B	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.
			DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0465#B	The DADS shall provide storage for the following Version 0 data: a. Standard products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0460#B	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.
			DADS0450#B	Each DADS shall provide storage, at a minimum, for the following scientist provided data: a. Special data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Research results (articles, algorithms, data sets, software) f. Instrument characterization data sets g. Associated Metadata
			DADS0440#B	Each DADS shall provide storage, at a minimum, for the following EOS data: a. Standard Products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms h. Format descriptions (e.g., HDF spec.)
			DADS1030#B	Each DADS shall generate data distribution status to monitor the progress of the distribution process.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0190#B	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			DADS0180#B	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			DADS0110#B	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			DADS0110#A	Each DADS shall receive from the IMS, at a minimum, the following: a. Documents b. Product status dialog c. Product orders
			PGS-1025#B	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS0475#A	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0475#B	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0180#A	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets
			PGS-1025#A	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines
			DADS1030#A	Each DADS shall generate data distribution status to monitor the progress of the distribution process.
			DADS0490#A	Each DADS shall archive Level 1B - Level 4 data products.
			DADS0440#A	Each DADS shall provide storage, at a minimum, for the following EOS data: a. Standard Products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms h. Format descriptions (e.g., HDF spec.)

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0450#A	Each DADS shall provide storage, at a minimum, for the following scientist provided data: a. Special data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Research results (articles, algorithms, data sets, software) f. Instrument characterization data sets g. Associated Metadata
			DADS0465#A	The DADS shall provide storage for the following Version 0 data: a. Standard products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0487#A	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
			DADS0460#A	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.
			DADS0190#A	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-00410	A	The INGST CI shall provide the capability to electronically transfer data to be ingested via the ESN into a specified ECS storage location.	DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00415	IR1	The INGST CI shall provide an interim capability to electronically transfer data to be ingested via the ESN into a specified ECS storage location for early interface testing purposes.	DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#Ir1	Each DADS shall receive, at a minimum, data in the following forms: b. Electronic communications network
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00420	A	The INGST CI shall provide the capability for an external application to transfer data to be ingested into a specified ECS storage location.	DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00425	A	The INGST CI shall provide the capability to request transfer of data from an 8mm tape.	DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00430	A	The INGST CI shall provide the capability by means of a Working Storage Allocation Request to the Data Server to allocate storage space for data to be transferred to satisfy an ingest request.	DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00440	A	The INGST CI shall estimate whether data may complete transfer before the date/time prior to which the data will remain available.	DADS2100#B	Each DADS shall receive time windows and priorities requested by the user for incorporation into and modification of its schedule.
S-INS-00450	A	The INGST CI shall retry transfer of data from the External Data Provider N times before the ingest request is failed, where N is a number specified by operations staff.	DADS1400#B	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
			DADS1400#A	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.
S-INS-00455	A	Operations staff shall contact the network operations staff and External Data Provider operations staff to resolve data transfer problems that are not handled automatically.	TRMM1090#A	Upon the ECS systems at the LaRC DAAC discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.
			TRMM2090#B	Upon the ESC operations at the MSFC DAAC discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.
			TRMM2090#A	Upon the ECS operations at the MSFC DAAC discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.
			TRMM1090#B	Upon the ECS systems at the LaRC DAAC, upon discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2070#B	Each DADS shall interact with EDOS, SDPF, and SMC to resolve schedule conflicts.
S-INS-00460	A	The INGST CI shall determine the size of each file transferred to ECS whenever file sizes are specified in the corresponding Ingest Request.	DADS0290#B	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, error-free input, correctness of the data set granule size, and other checks as required.
			DADS0290#A	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, and correctness of the data set granule size.
S-INS-00470	A	The INGST CI shall compare the size of each file after data transfer to ECS with file sizes specified in the corresponding Ingest Request.	DADS0290#A	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, and correctness of the data set granule size.
			DADS0290#B	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, error-free input, correctness of the data set granule size, and other checks as required.
S-INS-00480	A	The INGST CI shall verify that all files specified in an Ingest Request are successfully transferred to ECS.	DADS0290#B	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, error-free input, correctness of the data set granule size, and other checks as required.
			DADS0290#A	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, and correctness of the data set granule size.
S-INS-00490	A	The INGST CI shall log the following information in an Ingest History Log for each received Ingest Request: a. Ingest start/stop dates and times b. Ingest Request Identifier c. External Data Provider d. Final Service Request Status e. Data Type Identifiers f. Ingest data volume g. # of data sets h. # of data files	DADS1080#A	Each DADS shall maintain a data receipt log.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS1080#B	Each DADS shall maintain a data receipt log.
S-INS-00500	A	The INGST CI shall provide operations staff the capability to view selected entries from the Ingest History Log.	DADS1080#B	Each DADS shall maintain a data receipt log.
			DADS1080#A	Each DADS shall maintain a data receipt log.
S-INS-00510	A	The INGST CI shall provide the capability to select Ingest History Log entries for viewing by the following parameters: a. Ingest start/stop dates and times b. External Data Provider c. Data Type Identifier d. Final Service Request Status e. Test or operational mode	EOSD4100#A	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
			EOSD4100#B	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
			DADS1080#A	Each DADS shall maintain a data receipt log.
			DADS1080#B	Each DADS shall maintain a data receipt log.
S-INS-00520	IR1	The INGST CI shall ingest data, provided by the SDPF, from the ESN into the LaRC DAAC, using a file transfer protocol.	EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#Ir1	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for temporary storage for testing purposes only.
			TRMM1280#B	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#A	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#Ir1	ECS shall be able to accept CERES simulated data from SDPF.
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1608#Ir1	ECS elements shall receive from EPDSs the following at a minimum: a. Data products e. Metadata
			DADS0130#Ir1	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)
			TRMM1010#A	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data from sets from SDPF.
			TRMM1010#Ir1	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			TRMM1010#B	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			TRMM1060#A	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1060#B	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1060#Ir1	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1070#B	The ECS systems at the LaRC DAAC shall ensure that CERES data has been received and validated.
			SDPS0110#Ir1	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from SDPF.
			SDPS0110#B	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs
			SDPS0110#A	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM1200#Irr1	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1200#B	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM1200#A	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
S-INS-00530	A	The INGST CI shall ingest data, provided by the SDPF, from physical media into the LaRC DAAC as a backup transfer mechanism.	TRMM1010#A	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data from sets from SDPF.
			TRMM1010#B	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data sets from SDPF.
			TRMM1060#B	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1200#B	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM1200#A	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM2060#B	The ECS systems at the MSFC DAAC shall, after notification by SPDF, retrieve LIS Level 0 production and quick-look data by an agreed upon file transfer protocol.
			TRMM2060#A	The ECS systems at the MSFC DAAC shall, after notification by SPDF, retrieve LIS Level 0 production and quick-look data by an agreed upon file transfer protocol.
			TRMM1070#B	The ECS systems at the LaRC DAAC shall ensure that CERES data has been received and validated.
			TRMM1070#A	The ECS systems at the LaRC DAAC shall ensure that CERES data has been received and validated.
			TRMM1060#A	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.
			TRMM1280#B	ECS shall be able to accept CERES simulated data from SDPF.
			TRMM1280#A	ECS shall be able to accept CERES simulated data from SDPF.
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
S-INS-00540	IR1	The INGST CI shall ingest data, provided by the SDPF, from the ESN into the MSFC DAAC using a file transfer protocol.	EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD1607#Ir1	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for temporary storage for testing purposes only.
			TRMM2270#B	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#A	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#Ir1	ECS shall be able to accept LIS simulated data from SDPF.
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#Ir1	ECS elements shall receive from EPDSs the following at a minimum: a. Data products e. Metadata
			DADS0130#Ir1	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM2010#A	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2010#Ir1	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2030#B	The SDPF Level 0 and quick-look data sets for LIS shall contain quality and accounting information.
			SDPS0110#B	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs
			SDPS0110#A	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM2200#Ir1	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#B	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			SDPS0110#Ir1	The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from SDPF.
			TRMM2200#A	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM2190#Ir1	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#B	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#A	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2030#A	The SDPF Level 0 and quick-look data sets for LIS shall contain quality and accounting information.
			TRMM2010#B	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
S-INS-00550	A	The INGST CI shall ingest data, provided by the SDPF, from physical media into the MSFC DAAC as a backup transfer mechanism.	TRMM2010#A	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			TRMM2060#B	The ECS systems at the MSFC DAAC shall, after notification by SPDF, retrieve LIS Level 0 production and quick-look data by an agreed upon file transfer protocol.
			TRMM2200#B	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2200#A	ECS systems at the MSFC DAAC shall ingest definitive orbit data from the SDPF.
			TRMM2190#B	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2190#A	The ECS systems at the MSFC DAAC shall ingest predicted orbit data from the SDPF.
			TRMM2070#B	The ECS systems at the MSFC DAAC shall ensure that LIS data has been received and validated.
			TRMM2070#A	The ECS systems at the MSFC DAAC shall ensure that LIS data has been received and validated.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM2060#A	The ECS systems at the MSFC DAAC shall, after notification by SPDF, retrieve LIS Level 0 production and quick-look data by an agreed upon file transfer protocol.
			TRMM2010#B	The ECS systems at the MSFC DAAC shall ingest LIS data from SDPF.
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			TRMM2270#B	ECS shall be able to accept LIS simulated data from SDPF.
			TRMM2270#A	ECS shall be able to accept LIS simulated data from SDPF.
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
S-INS-00560	IR1	The INGST CI shall ingest Data, provided by the TSDIS, from the ESN into the GSFC DAAC using a file transfer protocol.	EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			TRMM5010#B	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#A	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#Ir1	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD1607#Ir1	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for temporary storage for testing purposes only.
			TRMM5030#B	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#A	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#Ir1	ECS shall have the capability to ingest directory and guide information from TSDIS.
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1608#Ir1	ECS elements shall receive from EPDSs the following at a minimum: a. Data products e. Metadata
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			TRMM4010#A	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4010#B	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4010#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS from TSDIS.
			TRMM4040#A	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			TRMM4040#Ir1	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.
			TRMM4060#B	The ECS systems at the GSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.
			TRMM4040#B	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM4030#Ir1	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#B	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			TRMM4030#A	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.
			DADS0170#A	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-00570	IR1	The INGST CI shall ingest Data, provided by the TSDIS, from the ESN into the MSFC DAAC using a file transfer protocol.	DADS0170#A	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			TRMM3010#A	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			TRMM3010#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM3030#A	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3030#Ir1	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
			TRMM3040#B	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3050#A	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3050#Ir1	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3060#B	The PR, TMI, and GV data ingested from TSDIS by ECS shall be archived in the ECS systems at the MSFC DAAC.
			TRMM3060#A	The PR, TMI, and GV data ingested from TSDIS by ECS shall be archived in the ECS systems at the MSFC DAAC.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			TRMM3070#B	The ECS systems at the MSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.
			TRMM3050#B	The ECS systems at the MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
			TRMM3040#Ir1	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3040#A	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
			TRMM3030#B	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM3010#B	The ECS systes at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
			DADS0170#Ir1	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#Ir1	ECS elements shall receive from EPDSs the following at a minimum: a. Data products e. Metadata
			DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD1607#Ir1	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for temporary storage for testing purposes only.
			TRMM5030#B	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#A	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5030#Ir1	ECS shall have the capability to ingest directory and guide information from TSDIS.
			TRMM5010#B	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM5010#A	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			TRMM5010#Ir1	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
S-INS-00580	A	The INGST CI shall ingest Data, provided by the EDOS, from the ESN into the GSFC DAAC using a file transfer protocol.	DADS0220#B	Each DADS shall accept, at a minimum, the following data types in support of development of initial calibration: a. Instrument calibration data b. Scientific calibration
			DADS0281#B	Each DADS shall be capable of ingesting and storing data to support the instrument science team(s) in: a. Pre-launch checkout of their instruments b. Pre-launch science checkout c. Development of initial calibration information
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0220#A	Each DADS shall accept, at a minimum, the following data types in support of development of initial calibration: a. Instrument calibration data b. Scientific calibration
			DADS0281#A	Each DADS shall be capable of ingesting and storing data to support the instrument science team(s) in: a. Pre-launch checkout of their instruments b. Pre-launch science checkout c. Development of initial calibration information
S-INS-00590	A	The INGST CI shall ingest Data, provided by the EDOS, from the ESN into the LaRC DAAC using a file transfer protocol.	DADS0220#A	Each DADS shall accept, at a minimum, the following data types in support of development of initial calibration: a. Instrument calibration data b. Scientific calibration

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0281#A	Each DADS shall be capable of ingesting and storing data to support the instrument science team(s) in: a. Pre-launch checkout of their instruments b. Pre-launch science checkout c. Development of initial calibration information
			EDOS-B.1.3#B	The DIF shall provide the capability to transfer ADS Delivery Records as specified in Applicable Document 1 to the LaRC DAAC following the delivery of each ADS.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
			DADS0281#B	Each DADS shall be capable of ingesting and storing data to support the instrument science team(s) in: a. Pre-launch checkout of their instruments b. Pre-launch science checkout c. Development of initial calibration information
			DADS0220#B	Each DADS shall accept, at a minimum, the following data types in support of development of initial calibration: a. Instrument calibration data b. Scientific calibration
S-INS-00600	B	The INGST CI shall ingest Data, provided by the EDOS, from physical media at the GSFC DAAC as a backup transfer mechanism.	DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00610	B	The INGST CI shall ingest Data, provided by the EDOS, from physical media at the LaRC DAAC as a backup transfer mechanism.	DADS0130#B	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-00620	IR1	The INGST CI shall ingest data, provided by the DAO, from the ESN into the LaRC DAAC using a file transfer protocol.	EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#B	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			DADS0260#B	Each DADS shall receive non-EOS correlative and ancillary digital data.
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
			DADS0260#Ir1	Each DADS shall receive non-EOS correlative and ancillary digital data.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#Ir1	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: d. Science Data
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0260#A	Each DADS shall receive non-EOS correlative and ancillary digital data.
			NOAA0020#A	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0020#B	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0710#B	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0710#A	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
S-INS-00630	IR1	The INGST CI shall ingest data, provided by NESDIS, from the ESN into the LaRC DAAC using a file transfer protocol.	NOAA0020#A	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0020#B	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			NOAA0510#B	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0510#A	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			DADS0260#A	Each DADS shall receive non-EOS correlative and ancillary digital data.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#Ir1	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: d. Science Data
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
			DADS0260#Ir1	Each DADS shall receive non-EOS correlative and ancillary digital data.
			DADS0260#B	Each DADS shall receive non-EOS correlative and ancillary digital data.
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1710#B	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
S-INS-00640	IR1	The INGST CI shall ingest data, provided by the DAO, from the ESN into the GSFC DAAC using a file transfer protocol.	EOSD0730#A	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			EOSD0730#B	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1710#B	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data
			DADS0260#B	Each DADS shall receive non-EOS correlative and ancillary digital data.
			DADS0145#Ir1	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data
			DADS0260#Ir1	Each DADS shall receive non-EOS correlative and ancillary digital data.
			EOSD0730#Ir1	Each ECS element shall be capable of verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS
			EOSD1710#Ir1	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: d. Science Data
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0260#A	Each DADS shall receive non-EOS correlative and ancillary digital data.
			NOAA0020#A	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			NOAA0020#B	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.
			NOAA0710#A	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
			NOAA0710#B	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.
S-INS-00645	B	The INGST CI shall ingest Data, provided by the NMC, from the LAN into the GSFC DAAC using a file transfer protocol.	DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-00650	B	The INGST CI shall ingest data, provided by the DAO, from the ESN into the EDC DAAC using a file transfer protocol.	DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			DADS0260#B	Each DADS shall receive non-EOS correlative and ancillary digital data.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00670	A	The INGST CI shall ingest Data, provided by an SCF, from the ESN into the MSFC DAAC using a file transfer protocol.	EOSD1750#A	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, Pls, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data
			PGS-0640#B	The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum : a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation
			EOSD1750#B	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, Pls, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data
			DADS0190#B	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0190#A	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			PGS-0640#A	The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum : a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation
S-INS-00680	A	The INGST CI shall ingest Data, provided by an SCF, from the ESN into the LaRC DAAC using a file transfer protocol.	DADS0190#A	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			PGS-0640#A	The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum : a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0190#B	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD1750#B	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1750#A	<p>ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is):</p> <ul style="list-style-type: none"> a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data
			PGS-0640#B	<p>The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum :</p> <ul style="list-style-type: none"> a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation
S-INS-00682	B	The INGST CI shall ingest Data, provided by an SCF, from the LAN into the GSFC DAAC using a file transfer protocol.	PGS-0640#B	<p>The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum :</p> <ul style="list-style-type: none"> a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation
			DADS0190#B	<p>Each DADS shall receive from the SCF, at a minimum, the following:</p> <ul style="list-style-type: none"> a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00684	B	The INGST CI shall ingest Data, provided by an SCF, from the LAN into the JPL DAAC using a file transfer protocol.	DADS0190#B	Each DADS shall receive from the SCF, at a minimum, the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			PGS-0640#B	The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum : a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation
S-INS-00720	A	The INGST CI shall ingest data, provided by the EOC, from the ESN using a file transfer protocol.	DADS0160#A	A designated DADS shall receive from the EOC, at a minimum, the following: a. Spacecraft history log (or subset of history log) b. Associated Metadata
			DADS0160#B	A designated DADS shall receive from the EOC, at a minimum, the following: a. Spacecraft history log (or subset of history log) b. Associated Metadata
			DADS0150#B	Designated DADS shall receive from the ICC, at a minimum, the following: a. Instrument history log (or subset of history log) b. Associated Metadata
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00730	B	The INGST CI shall ingest data, provided by the FDF, from the ESN into the GSFC DAAC using a file transfer protocol.	DADS0175#B	The GSFC DADS shall receive from FDF, at a minimum : a. Orbit data b. Attitude data c. Metadata
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
S-INS-00780	A	The INGST CI shall ingest data, provided by the Landsat 7 Processing Facility (LPS), from the ESN into the EDC DAAC using a file transfer protocol.	DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD0030#A	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.
			EOSD1608#A	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			EOSD1607#A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD0030#B	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			LAND-0040#B	The ECS shall have the capability to provide access to the Landsat 7 guide information.
			LAND-0050#A	The LPS shall have the capability to send and the ECS shall have the capability to receive inventory metadata for Landsat 7 Level 0R data.
			LAND-0060#B	The LPS shall have the capability to send and the ECS shall have the capability to receive browse data for Landsat 7 Level 0R data.
			LAND-0050#B	The LPS shall have the capability to send and the ECS shall have the capability to receive inventory metadata for Landsat 7 Level 0R data.
			LAND-0070#A	The LPS shall have the capability to send and the ECS shall have the capability to receive Landsat 7 Level 0R data.
			LAND-0080#A	The ECS shall have the capability to send and the LPS shall have the capability to receive a data transfer acknowledgment.
			LAND-0170#A	ECS elements shall be capable of supporting end-to-end test and verification activities of the EOS program including pre-launch, satellite verification, and instrument verification and operational phases as they pertain to the Landsat 7/ECS interface.
			LAND-0080#B	The ECS shall have the capability to send and the LPS shall have the capability to receive a data transfer acknowledgement.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			LAND-0060#A	The LPS shall have the capability to send and the ECS shall have the capability to receive browse data for Landsat 7 Level 0R data.
			LAND-0180#B	ECS shall be capable of ingesting, storing and distributing data from LPS to support Landsat-7 for: a. Pre-launch checkout of instruments b. Development of initial calibration information.
			LAND-0170#B	ECS elements shall be capable of supporting end-to-end test and verification activities of the EOS program including pre-launch, satellite verification, and instrument verification and operational phases as they pertain to the Landsat 7/ECS interface.
			LAND-0070#B	The LPS shall have the capability to send and the ECS shall have the capability to receive Landsat 7 Level 0R data.
			DADS0170#A	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00785	B	The INGST CI shall ingest Data, provided by the Landsat 7 Image Assessment System (IAS), from the LAN into the EDC DAAC using a file transfer protocol.	DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD0030#B	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.
			EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			LAND-0110#B	The IAS shall have the capability to send and the ECS shall have the capability to receive Landsat 7 instrument (ETM+) calibration information and associated metadata.
S-INS-00787	B	The INGST CI shall ingest Data, provided by the Landsat 7 International Ground Stations (IGSs), into the EDC DAAC on 8 mm cartridge tape.	EOSD1607#B	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution b). Landsat 7 data for archive and distribution including IGS metadata and browse.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1608#B	ECS elements shall receive from EPDSs the following at a minimum: a. Data products b. Ancillary data c. Calibration data d. Correlative data e. Metadata f. Data information g. Documentation
			DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
			EOSD0030#B	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.
			LAND-0090#B	The IGSs shall have the capability to send and the ECS shall have the capability to receive inventory metadata for Landsat 7 IGS data.
			LAND-0100#B	The IGSs shall have the capability to send and the ECS shall have the capability to receive browse data for Landsat 7 IGS data.
S-INS-00790	B	The INGST CI shall ingest data, received on physical media from the ASTER GDS, into the EDC DAAC.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
S-INS-00800	A	The INGST CI shall ingest Data, provided by Version 0, from the LaRC DAAC using a file transfer protocol.	DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00810	A	The INGST CI shall ingest Data, provided by Version 0, from the GSFC DAAC on 8mm tape.	DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
S-INS-00830	A	The INGST CI shall ingest Data, provided by Version 0, from the MSFC DAAC on 8mm tape.	SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
			DADS0250#A	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-00840	B	The INGST CI shall ingest data provided by ADEOS II/SeaWinds into the JPL DAAC.	SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
S-INS-00841	B	The INGST CI shall ingest data, provided by RADARSAT Geophysical Processing System (RGPS), into the ASF DAAC via file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00843	B	The INGST CI shall ingest data, provided by the Acquisition Planning System (APS), into the ASF DAAC via file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00845	B	The INGST CI shall ingest data, provided by the Product Verification System (PVS), into the ASF DAAC via file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00847	B	The INGST CI shall ingest data, provided by the Production Planning System (PPS), into the ASF DAAC via file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00849	B	The INGST CI shall ingest data, provided by the Flight Agency Interface (FAIF), into the ASF DAAC via file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00850	B	The INGST CI shall ingest Data, provided by SAGE III, into the LaRC DAAC.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00852	B	The INGST CI shall ingest Data, provided by ACRIM, into the LaRC DAAC.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00854	B	The INGST CI shall ingest Data, provided by the ASF Receiving Ground Station (RGS) via a network interface using a file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00856	B	The INGST CI shall ingest Data, provided by the ASF SAR Processing System (SPS) via a network interface using a file transfer protocol.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-00870	A	The ICLHW CI at the GSFC DAAC shall be capable of ingesting data .for EDOS/ECOM interface testing.	DADS2780#A	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-00880	A	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data for EDOS/ECOM interface testing.	DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
			DADS2780#A	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-00900	B	The INGST CI at the GSFC DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.
S-INS-00910	B	The INGST CI at the LaRC DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.
S-INS-00920	B	The INGST CI at the MSFC DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.
S-INS-00925	B	The INGST CI at the EDC DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.
S-INS-00927	B	The INGST CI at the NSIDC DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.
S-INS-00929	B	The INGST CI at the ASF DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-00930	B	The INGST CI at the JPL DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.	DADS3090#B	Each DADS shall be capable of 200% expansion in throughput and archive capacity without architecture or design change. This expansion capacity shall apply to the total of the at-launch requirement plus the yearly growth requirement specified in Appendix C.
S-INS-00990	A	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the SDPF at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-01000	A	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the SDPF at a maximum daily rate that is three times the nominal rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS1472#A	Each DADS shall contain the appropriate capacity to respond to contingencies, scheduling problems, and peak loads.
			DADS2778#A	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
S-INS-01030	A	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data, by network data transfer from the NESDIS, at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0145#A	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-01035	B	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data, by network data transfer from NESDIS, at the nominal daily rate specified in Tables E-3a and E-3b of appendix E of the current version of 304-CD-005 for Release B.	DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-01040	A	The INGST CI at the LaRC DAAC shall be capable of receiving data from the SDPF once per day within 24 hours of the last acquisition Client Session.	TRMM1110#A	SDPF shall provide a CERES Level 0 data set to the ECS systems at the LaRC DAAC once per day within 24 hours of the last acquisition session.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			TRMM1110#B	SDPF shall provide a CERES Level 0 data set to the ECS systems at the LaRC DAAC once per day within 24 hours of the last acquisition session.
S-INS-01050	A	The ICLHW CI at the MSFC DAAC shall be capable of ingesting data from the SDPF at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0130#A	Each DADS shall receive from the EDOS and SDPF, at a minimum, the following: a. Production data (L0) b. Expedited data
S-INS-01060	A	The ICLHW CI at the MSFC DAAC shall be capable of ingesting data from the SDPF at a maximum daily rate that is three times the nominal rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS1472#A	Each DADS shall contain the appropriate capacity to respond to contingencies, scheduling problems, and peak loads.
			DADS2778#A	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
S-INS-01100	A	The INGST CI at the MSFC DAAC shall be capable of receiving data set from the SDPF once per day within 24 hours of the last acquisition Client Session.	TRMM2110#A	SDPF shall provide a LIS Level 0 data set to the ECS systems at the MSFC DAAC once per day within 24 hours of the last acquisition.
			TRMM2110#B	SDPF shall provide a LIS Level 0 data set to the ECS systems at the MSFC DAAC once per day within 24 hours of the last acquisition.
S-INS-01136	A	The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the DAO at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0145#A	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-01137	B	The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the NMC at the nominal daily rate specified in Tables E-3a and E-3b of Appendix E of the current version of 304-CD-005 for Release B.	DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-01138	A	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the DAO at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0145#A	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-01140	B	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the NMC at the nominal daily rate specified in Tables E-3a and E-3b of Appendix E of the current version of 304-CD-005 for Release B.	DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-02000	B	The INGST CI shall interactively accept Document Scanning/Digitizing Requests from authorized operations staff for hard copy media to be ingested.	DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
S-INS-02010	B	The INGST CI shall authenticate that the Document Scanning/Digitizing Request is input by operations staff authorized to ingest hard copy media.	EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
S-INS-02020	B	The INGST CI shall verify that the External Data Provider specified in a Document Scanning/Digitizing Request is an authorized provider of hard copy media to be ingested.	DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
			EOSD2400#B	ECS shall provide multiple categories of data protection based on the sensitivity levels of ECS data, as defined in NHB 2410.9.
S-INS-02030	B	The INGST CI shall automatically determine the data volume for each scanned or digitized file resulting from an interactively entered Document Scanning/Digitizing Request.	DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
S-INS-02040	B	The INGST CI shall report to the Error Log an unauthorized attempt to interactively request ingest of hard copy media.	DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
S-INS-02050	B	The INGST CI shall report Document Scanning/Digitizing Request status to the submitting operations staff for the following: a._Hard copy scanning/digitizing failure b._Invalid Data Type Identifier c._Missing required metadata d._Metadata parameters out of range e._Failure to archive data f._Unauthorized hard copy media provider g._Unauthorized operations staff h._Successful archive of data	DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
S-INS-03103	B	"The INGST CI shall extract metadata from ingested data into a form accepted by the Science Data Server/Document Data Server, as needed, for the following categories of data:" a. Metadata parameters stored in a data-set-specific format	DADS0320#B	Each DADS shall verify compliance of scientist provided data with EOSDIS defined standards for metadata and file content (not scientific content).

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-03200	B	The INGST CI shall be capable of operating in an off-line (test) mode.	DADS0281#B	Each DADS shall be capable of ingesting and storing data to support the instrument science team(s) in: a. Pre-launch checkout of their instruments b. Pre-launch science checkout c. Development of initial calibration information
			EOSD4100#B	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
S-INS-03210	B	The INGST CI shall be capable of accessing test data sets when operating in off-line (test) mode.	EOSD4100#B	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
S-INS-60110	A	The ICLHW CI shall support the hardware resource requirements of the INGST CI and its interface requirements with the operations staff.	EOSD0500#B	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management
S-INS-60150	IR1	The ICLHW CI shall have provision for Initialization, Recovery, and an orderly shutdown.	EOSD1703#Ir1	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: b). Science Algorithm Integration
			EOSD2990#B	The ECS elements shall support the recovery from a system failure due to a loss in the integrity of the ECS data or a catastrophic violation of the security system.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1703#A	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance
			EOSD1703#B	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance
S-INS-60160	A	Startup and initialization of the ICLHW CI shall be completed within 30 minutes (TBR).	SDPS0120#A	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
			SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60170	A	Shutdown of the ICLHW CI shall be completed within 30 minutes (TBR).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
			SDPS0120#A	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60190	IR1	The ICLHW CI shall have a status monitoring capability.	EOSD0780#Ir1	Each ECS element shall be capable of being monitored during testing.
			SDPS0010#Ir1	The SDPS shall provide CSMS with operational, and data processing, data quality status.
			EOSD0780#A	Each ECS element shall be capable of being monitored during testing.
			SDPS0010#B	The SDPS shall provide CSMS with operational, data processing, data quality and accounting status.
			EOSD0780#B	Each ECS element shall be capable of being monitored during testing.
			SDPS0010#A	The SDPS shall provide CSMS with operational, data processing, and data quality.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60210	A	The INGST CI shall support a maximum of 300 transactions per day, as specified for each release and corresponding DAAC sites in Table E-3e of the current version of 304-CD-002 for Release A.	EOSD1010#B	ECS shall support daily data volume, processing load, storage volume, instrument support, and data traffic as derivable from and specified in Appendix C and D.
			EOSD1010#A	ECS shall support daily data volume, processing load, storage volume, instrument support, and data traffic as derivable from and specified in Appendix C and D.
S-INS-60310	A	The ICLHW CI shall be capable of operating in a 24 hour per day, 7 days a week mode.	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
			SDPS0120#A	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60320	A	The ICLHW CI shall be configured to support the SDPS function of Receiving Science Data's Availability requirement of .999 and Mean Down Time requirement of < 2 hours during times of staffed operation.	EOSD3900#A	The SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum (.99995 design goal) and an MDT of two (2) hours or less (8 minutes design goal).
			EOSD3900#B	The SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum (.99995 design goal) and an MDT of two (2) hours or less (8 minutes design goal).
S-INS-60325	A	The ICLHW CI shall be configured to support the SDPS function of Metadata Ingest and Update's Availability requirement of .96 and Mean Down Time requirement of 4 hours or less.	EOSD3960#B	The SDPS function of Metadata Ingest and Update shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).
			EOSD3960#A	The SDPS function of Metadata Ingest and Update shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).
S-INS-60326	A	The maximum down time of the ICLHW CI shall not exceed twice the required MDT in 99 percent of failure occurrences.	EOSD3630#A	The maximum down time shall not exceed twice the required MDT in 99 percent of failure occurrences.
			EOSD3630#B	The maximum down time shall not exceed twice the required MDT in 99 percent of failure occurrences.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60330	A	The ICLHW CI elements and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.	EOSD4100#B	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
			EOSD4100#A	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
S-INS-60410	A	The ICLHW CI shall provide maintenance interfaces to support the function of System Maintenance.	EOSD1703#A	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance
			EOSD1703#B	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance
S-INS-60420	A	The ICLHW CI shall provide operations interfaces to support the function of System Maintenance.	EOSD1703#A	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD1703#B	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance
S-INS-60430	IR1	The ICLHW CI platforms shall have provision for interfacing with one or more Local Area Networks (LANs).	SDPS0020#Ir1	The SDPS shall receive EOS science, and engineering data from the SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#A	The SDPS shall receive EOS science, engineering, ancillary, and expedited data from the EDOS, and SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.
			SDPS0020#B	The SDPS shall receive EOS science, engineering, ancillary and expedited data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, associated algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.
S-INS-60510	IR1	The electrical power requirements for ICLHW CI equipment shall be in accordance with and the ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60540	IR1	The air conditioning requirements for ICLHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60550	IR1	The grounding requirements for ICLHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60560	IR1	The fire alarm requirements for ICLHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60570	A	The acoustical requirements for ICLHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
			SDPS0120#A	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60580	IR1	The physical interface requirements between ICLHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60590	IR1	The footprint size and the physical layout of ICLHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	SDPS0120#B	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.
S-INS-60605	IR1	The ICLHW CI shall support test activities throughout the development phase.	EOSD0510#A	ECS shall be capable of being tested during all phases of its development and flight operations.
			EOSD0510#B	ECS shall be capable of being tested during all phases of its development and flight operations.
S-INS-60610	IR1	The following testing shall be performed on the ICLHW CI: a. Unit Testing b. Subsystem testing c. Integration & Testing d. End-to-End testing	EOSD0510#A	ECS shall be capable of being tested during all phases of its development and flight operations.
			EOSD0510#B	ECS shall be capable of being tested during all phases of its development and flight operations.
S-INS-60620	A	Internal testing shall be performed on the ICLHW CI which includes tests of hardware functions, and integration testing with other SDPS subsystems.	EOSD0510#B	ECS shall be capable of being tested during all phases of its development and flight operations.
			EOSD0510#A	ECS shall be capable of being tested during all phases of its development and flight operations.
S-INS-60630	A	Internal testing shall be performed on the ICLHW CI to verify the internal interfaces to the Data Management, Client, Data Server, Planning, and Data Processing subsystems.	EOSD0510#A	ECS shall be capable of being tested during all phases of its development and flight operations.
			EOSD0510#B	ECS shall be capable of being tested during all phases of its development and flight operations.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60640	A	Each ICLHW CI element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.	EOSD0800#B	Each ECS element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.
			EOSD0800#A	Each ECS element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.
S-INS-60650	IR1	The ICLHW CI shall be capable of being monitored during testing.	EOSD0750#B	Each ECS element shall provide a set of real or simulated functions which interfaces with both its ECS internal and external entities for use in the following types of test: a. Subsystem (components of an ECS element) b. Element (fully integrated element) c. EOSDIS System (Integration of EOSDIS elements)
S-INS-60660	B	The ICLHW CI shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.	EOSD4100#B	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
S-INS-60733	B	The ICLHW CI shall contain the storage and interface resources to support the ingest functions for the Landsat 7 Processing System interface at EDC.	EOSD1085#B	ECS shall be capable of ingesting and archiving Landsat7 Level OR data produced by LPS over 12 hours, (see Appendix C) within 8 hours from the time of receipt of the data availability notice from LPS.
S-INS-60736	B	The ICLHW CI at the GSFC DAAC shall be sized to store and maintain the volume of EDOS data for a 1 year period of time as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
S-INS-60740	A	The ICLHW CI at the LaRC DAAC shall be sized to store and maintain the volume of SDPF data for a 1 year period of time as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0487#A	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
			DADS0475#A	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0475#B	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
S-INS-60741	B	The ICLHW CI at the LaRC DAAC shall be sized to store and maintain the volume of EDOS data for a 1-year period of time as specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
S-INS-60745	A	The ICLHW CI at the MSFC DAAC shall be sized to store and maintain the volume of SDPF data for a 1 year period of time as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS0475#A	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS0475#B	The DADS shall provide storage for the following TRMM data: a. L1A-L4 equivalent data products b. Associated correlative data sets c. Associated ancillary data sets d. Associated calibration data sets e. Associated metadata f. Documents g. Algorithms.
			DADS0487#A	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
			DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
S-INS-60746	B	The ICLHW CI at the JPL DAAC shall be sized to store and maintain the volume of ADEOS II data for a 1-year period of time as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
S-INS-60748	B	The ICLHW CI at the JPL DAAC shall be sized to store and maintain the volume of ALT-RADAR data for a 1-year period of time as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0487#B	Each DADS shall be capable of storing EDOS production data sets (Level 0) for at least one year from the date they are ingested.
S-INS-60750	A	The ICLHW CI at the GSFC DAAC shall be sized to temporarily store ingest data to support early testing of the EDOS interface.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
			SDPS0140#A	The SDPS shall support element, system, and subsystem test activities throughout the development phase.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			DADS2778#A	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#A	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-60751	B	The ICLHW CI at the GSFC DAAC shall be sized to temporarily store the volume of EDOS data as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-60755	A	The ICLHW CI at the LaRC DAAC shall be sized to temporarily store two times the daily volume of SDPF data as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
			DADS2778#A	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#A	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-60756	B	The ICLHW CI at the LaRC DAAC shall be sized to temporarily store the volume of EDOS data as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60760	A	The ICLHW CI at the MSFC DAAC shall be sized to temporarily store two times the daily volume of SDPF data as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
			DADS2778#A	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#A	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-60765	A	The ICLHW CI shall have a switchover time from the primary science data receipt capability to a backup capability of 15 minutes or less.	EOSD3910#A	The switchover time from the primary science data receipt capability to a backup capability shall be 15 minutes or less (10 minutes design goal).
			EOSD3910#B	The switchover time from the primary science data receipt capability to a backup capability shall be 15 minutes or less (10 minutes design goal).
S-INS-60770	B	The ICLHW CI at the EDC DAAC shall be sized to temporarily store the volume of Landsat 7 data as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	EOSD1085#B	ECS shall be capable of ingesting and archiving Landsat7 Level OR data produced by LPS over 12 hours, (see Appendix C) within 8 hours from the time of receipt of the data availability notice from LPS.
S-INS-60771	B	The ICLHW CI at the JPL DAAC shall be sized to temporarily store the volume of ALT-RADAR data as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60772	B	The ICLHW CI at the JPL DAAC shall be sized to temporarily store the volume of ADEOS II data as specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
			DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
S-INS-60810	IR1	The operating system for each UNIX platform in the ICLHW CI shall conform to the POSIX.2 standard.	EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60820	IR1	The ICLHW CI POSIX.2 compliant platform shall have the following utilities installed at a minimum: perl, emacs, gzip, tar, imake, prof, gprof, nm.	EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60830	IR1	The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 user Portability Utilities installed at a minimum: man, vi.	EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
			EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60840	IR1	The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 Software Development Utilities installed at a minimum: make.	EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60850	IR1	The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 C-Language Development Utilities installed at a minimum: lex, yacc.	EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60860	IR1	The ICLHW CI POSIX.2 compliant platform shall have the following Unix shells installed at a minimum: C shell, Bourne shell, Korn shell.	EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60870	IR1	The ICLHW CI POSIX.2 compliant platform shall have on-line documentation or printed documentation for each installed tool.	EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60880	IR1	The ICLHW CI POSIX.2 compliant platform shall have installed one or more development environment supporting the following languages: a. C b. C++	EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60890	IR1	Each development environment associated with the POSIX.2 compliant platform in the ICLHW CI shall have the capability to compile and link strictly conformant POSIX-compliant source code.	EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-60895	IR1	Each development environment associated with the POSIX.2 compliant platform in the ICLHWC1 shall have an interactive source level debugger for ECS supported languages.	EOSD5020#Ir1	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#B	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
			EOSD5020#A	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.
S-INS-60900	B	The INGST CI shall provide the necessary hardware/software to perform scanning and/or digitizing of hardcopy documents for the purpose of inputting document request from authorized users.	DADS0070#B	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.
			DADS0250#B	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media
S-INS-61000	B	The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the EDOS at the nominal daily rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
			EDOS-C.2.1#B	The DIF-GSFC DAAC interface shall provide the capability to support the transfer of Operations Management data to the GSFC DAAC at a rate of up to 50 Kbps.
S-INS-61010	B	The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the EDOS at a maximum daily rate that is three times the nominal rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-61020	B	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the EDOS at the nominal daily rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.
			EDOS-B.2.1#B	The DIF-LaRC DAAC interface shall provide the capability to support the transfer of Operations Management data to the LaRC DAAC at a rate of up to 50 Kbps.
S-INS-61025	B	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the EDOS at a maximum daily rate that is three times the nominal rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2778#B	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.
S-INS-61030	B	The ICLHW CI at the EDC DAAC shall be capable of ingesting data from the Landsat 7 Processing System (LPS) at the nominal rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	EOSD1085#B	ECS shall be capable of ingesting and archiving Landsat7 Level OR data produced by LPS over 12 hours, (see Appendix C) within 8 hours from the time of receipt of the data availability notice from LPS.
S-INS-61040	B	The ICLHW CI at the EDC DAAC shall be capable of ingesting data from the Landsat 7 IAS at the nominal daily rate specified in Appendix E (Section E.1, Table E-1 Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-61050	B	The ICLHW CI at the EDC DAAC shall be capable of ingesting data from the Landsat 7 IGSSs at the nominal daily rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0170#B	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-61080	B	The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the NMC at the nominal daily rate specified in Appendix E (Section E.1, Table E-1 and Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0145#B	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: a. L0-L4 equivalent data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms
S-INS-61110	B	The ICLHW CI at the JPL DAAC shall be capable of ingesting data from RADAR-ALT at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-61115	B	The ICLHW CI at the JPL DAAC shall be capable of ingesting data from ADEOS II at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS2780#B	Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.

Ingest Subsystem L4 to RbR traceability

L4 ID	Rel	L4 Text	RbR ID	RbR Text
S-INS-61140	B	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from SAGE III at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-61150	B	The ICLHW CI at the ASF DAAC shall be capable of ingesting data from the ASF RGS at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-61160	B	The ICLHW CI at the ASF DAAC shall be capable of ingesting data from the ASF SPS at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms
S-INS-61170	B	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from ACRIM at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.	DADS0200#B	Each DADS shall receive from the IPs at a minimum, the following: a. L0-L4 data products b. Orbit/attitude data c. Metadata associated with data sets d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms

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